Another attempt is being made to revise the building code of the city. At the same time the question of limiting the height of skyscrapers is under consideration. Ernest Flagg, architect of the Singer building, next to the highest in the world, sets forth in the following article two opportune and important theories. By one the enormous fire loss would be reduced; by the other the advantages of skyscrapers would be secured and their disadvantages eliminated.

Ernest Flagg.

By ERNEST FLAGG.

W things are more worthy of study than the building habits of a race, for they tell more surely than anything else of an

amediate shelter was the prime con- move the danger altogether. deration and little attention was paid

to strike at the root of the evil by changing our building habits. Every equal to about one-half the cost of new construction, to my nothing of the portant element in the customs and frightful loss of life which accompanies it; yet for a tithe of this cost we could

Any one who will take the trouble any other. Money and labor were to examine the building regulations of arce and incombustible materials ex- cities where the fire loss is low will find so flimsy and dangerous build- on common sense accomplish the obng habits were formed, which still ject. The chief one of these is that specify walls which separate buildings shall be The result is a most extraordinary so designed as to be able to stand to loss. This loss is from ten to twen-upright independently of any support is in countries where better building tems which they carry. Another is that tethods prevail. Although we are benaing to realize this fact, strange to cases be covered by incombustible mawe take no steps to prevent it terial. If these two simple require-

with the saving effected. Baltimore and San Francisco, have been almost wiped out of existence by general conflagrations, yet neither seems to have been learned by these costly demonstrations of the inadequacy of the Board of Aldermen is engaged in our methods. In each case those cities another attempt to revise the building of course the first plan to suggest itwere built up again on the same plan law, but as the object is simply to make self is a simple limitation of height. not the problem solved, for what more as before and now only await a favorable combination of circumstances to undergo a similar ordeal. Here in New York every year we cover many square miles with buildings which are liable to be swept away by fire in a night. Could anything be mere foolish when the way to avoid the danger is so perfectly ap-

parent? quire into their origin we find that they

All the community has the right to rect way, with the least hardship to When the law undertakes to tell me shall use, how I shall use them to accomplish certain results, it goes out- tenements. side of its legitimate province and interferes unnecessarily with personal liberty. To require that staircases shall be enclosed by partitions capable of withstanding a certain degree of heat applied for a certain length of tme is year we patiently bear a loss by fire proper enough, but to require that a certain kind of material of a stated thickness shall be used to accomplish the object is all wrong; for this assumes that there is only one road to safety, while there may be many.

It is this method of making the law which has made so much trouble and caused such great dissatisfaction dur-ing the last few years in the various 4. Injustice as between adjoining propensive, while wood was abundant and them simplicity itself. A few rules based attempts to revise the building code of Greater New York. It is impossible to certain materials for general use and forbid others without the ap-pearance of favoritism. If instead of descending to these details the law confined itself to the establishment of the proper bounds of safety, within which all might be free to act, every practical purpose would be accomplished and

injustice avoided.

The two cardinal features of all the

of the Skyscraper Can Be Preserved While Eliminating the Disadvantages

1. When not too close together they afford most agreeable, healthy and desirable quarters.

2. They increase the available floor area, a very important consideration, especially on Manhattan Island.

3. They increase the value of land by the state of the consideration.

During the last fifty years four first-class American cities, Chicago, Boston, tirely lacking in ours, for we do not tirely lacking in ours, for we do not establish adequate wall thicknesses and

> light and air for buildings and streets. At the present time a committee of a revision on the old plan no permanent good can come of it; as well might one expect a good building constructed on a bad plan, and if the law is made on this basis it will only perpetuate ings do not already exist. present dangerous conditions and in-

volve more waste. It seems too evident to need argu-Our building laws are voluminous, but the had until the use of non-inflammable materials is made general, but

our law makes that impossible. able practices made their appearance very necessary handicap placed on the from time to time they were forbidden use of wood, by requiring thicker walls followed ever since. This way of mak- call fireproof construction would betice, and is altogether wrong and un- but nothing of this sort can be expected from any revision of the present law such as is now being made.

be obtained in the most simple and di- on a plan for the limitation of the height of buildings. This matter is or interference with private interests, properly a part of the building code, but it has never formed a part of ours. how I shall build, what materials I Heretofore there has been no limit of height except during recent years for

It seems now to be generally conceded that something must be done to limit the height or area of all buildings. We are learning by experience that streets designed for a city four or five stories high cannot be made to serve properly for one of two or three times that height. We find that these high buildings produce certain inconveniences, among them the following:

 Too great congestion of the streets.
 The shutting out of sun and light from streets and buildings.
 Increase in the fire risk owing to the danger of the spread of flames from one

tain favored districts at the expense of the surrounding land. 6. The obligation which these inflated values impose on owners to build high

to escape ruin by taxation.
7. The disfigurement of the city by giving to the streets a wild. Western ragged look, incompatible with dignity, order or

On the other hand, that there are

Architect of the Singer Building Talks of Two Great Needs of New York's Building Laws—How the Advantages Building Laws—How the Advantages of them, and those advantages ought not to be lost sight of in the reaction which now seems to be setting in against them. They are as follows:

and elsewhere fifty years ago it is altogether probable that our fire loss would now be no greater than it is in European cities, while the cost involved of adequate wall thickness and regulations.

Separately on Manhattan Island.

They increase the value of land by permitting greater use to be made of it.

They swell the city's tax roll because they do make land more valuable.

Some of them are very good looking. together probable that our fire loss would now be no greater than it is in European cities, while the cost involved would have been little when compared with the saving effected.

I have studied are: Regulations for 4. They swell the city's tax roll because they do make land more valuable.

Some of them are very good looking, and they have come to be regarded as distinctive of our type of architecture.

6. We are used to them, and a large part of the community do not want to give them up.

Is it not evident, therefore, that a plan for regulating high buildings which will remove their bad features while retaining their good ones should be the best one to adopt?

such as is found in almost all European cities. This expedient is undoubtedly, the best from the æsthetic standpoint for places where high build-

Recently, the encroachments of private owners on the streets of Manhat-It seems too evident to need argutan in the form of stoops, porches, ment that safety against fire can never areaways, &c., have been removed from some of the more important thoroughfares, and few people can be found who do not admit that the improvement grew up by chance and are founded on If all unnecessary handicaps were in appearance is great. The streets no scientific principles. As objection-removed from the better material and a have lost somewhat of their ragged. more of a metropolitan air, but this and specific directions given for doing where wooden floor beams were used improvement, though great, would apthe work in another way, and this than in buildings having incombustible pear slight in comparison with the immethod of making the law has been floor systems, then the use of what we provement which would result if the sky line could be regulated. Unfortuing the law involves endless complica-tions, causes dissatisfaction and injus-the interest of builders to make it so, tan Island. We have the high buildings and we cannot get rid of them.

The damage has been done, and it can serve little purpose to shut the barn demand of the builder is safety and jus-tice in building operations, and it is manifestly proper that these should Estimate and Apportionment engaged esthetic which are to be hoped for through a regulation of the height or area of buildings. In my judgment a simple limitation of height for Manhattan Island would be entirely ineffectual in securing them, because no limit of the kind sufficiently low to accomplish the desired objects will be

Now, unless I am a very bad prophet another mistake is likely to be made in spite of warning, that is to say a limit of height placed on buildings far above the level at which it can be effective in securing the objects sought for.

Let us see what this effective height available on that point, namely, the ex-perience and practice of all that part of the civilized world where municipal affairs are admittedly well regulated. It is a thing which is perfectly well under-stood in all the great cities of Europe. and neither the introduction of the stee owners through the preemption of frame method of construction nor the wrought such a change in our method of building, have been able, so far as I know, in a single instance to induce a city of the Old World to depart from its standard of height. Their experience has taught them that the necessary limit of height for buildings is equal to about once the width of the street and that it would be folly to exceed it.

If a demonstration is needed to show any done him. If a demonstration is needed to show age done him.

SKYSCRAPER PROBLEM

that about this same limit is necessary here a very interesting one can be found right at hand. A certain building one can be found right at hand. A certain building would be set back from the cern has built some large blocks of model tenements. The height of these buildings is 60 feet, and the area of the buildings is 60 feet, and the area of the land, yet the buildings are only fairly

1. The plan would assure to every owner of land the right to build high on an area as large as can be built on without area as large as can be built on without.

tinue, and regulations should be made accordingly.

unrestricted erection of high buildings and also the list of the admittedly good neighbors. points which those buildings possess we points which those buildings possess we find that all the evils with the exception of ugliness are due to overcrowding, and that all the good qualities are dependent upon not overcrowding.

6. Under this rule land values would be more evenly distributed, for by just so much as the plan would serve as a check on the erection of high buildings it would serve to spread the area of busihigh buildings is the best one to adopt. If such a plan can be found why is can be desired than to avoid the evils while retaining the benefits of high bulldings?

and I think entirely practicable. It is as follows:

I would establish a general level of height for all buildings low enough to be effective in accomplishing the objects already enumerated, that is to say, equal to about once the width of the street on which the building faces; without other restriction as to area than that the least horizontal dimension of any court or area left vacant for light court or area left vacant for light would be secured by the establishment should equal a certain proportion, say of a uniform cornice line for the street one-tenth of the height of the wall or

our high buildings from the assumed on which the building stands, I would allow the building to any height without other restriction than that this part of the building be set back somewhat from the street so as not to darken it. all sides. open spaces more liberal rules might be made than for inside plots. I would right to build high in favor of any adjoining plot.

The effect of such a law would be as follows: 1. It would act as an efficient check ou

the building of high buildings and consequently a check on congestion, for not every one would exercise the right to build above the general level if that part of the building was restricted to so small a percentage of the area of the plot, and it would not generally pay to do so at all on small plots. If the right was exall on small plots. If the right was excreised in such cases the height would
then be sufficiently restricted by the practical requirements for elevator service and
staircases; but even if the owner of a
small plot was debarred by these considerations from building high he would not
necessarily lose the value of his privilege
to do so, because he would have the right o dispose of it in favor of adjoining land 2. Every owner would be protected in

is right to a fair share of the light day, because if adjoining owners could build above the general level only on ene-quarter of the area of their plots, no great age could be done him, however the lings might be disposed. If an owner

vacant 30 per cent. of the area of the land, yet the buildings are only fairly well lighted. This illustration is important because rare in America.

The time has certainly come when we should understand that the open surguent of the public to light for the streets, and this is all the liberty he ought to have, for it is all he can exercise without injury to others.

roundings which have heretofore made our high buildings desirable cannot conthe general average of value would un-If we consider the list of evils, as would be assured that his light enumerated, which has resulted, or not be seriously obstructed. That this which seems likely to result, from the is a most valuable asset is being more unrestricted erection of high buildings and more realized as we find our land

Therefore we can safely conclude that ness centres. The area of the financial a plan which will prevent overcrowding district, for instance, has scarcely inwhile still permitting the erecting of creased at all during the last forty years, while the floor area in that district, much of which is most insufficiently lighted, has increased tenfold during that time.

7. The separation of high buildings which the plan would effect would greatly lessen the fire risk, because there would be less danger of fire leaping from one The plan I propose is very simple high building to another. This risk might very properly be further reduced by requiring that all structures which exceed the general level of height should be made entirely without the use of inflammable material. 8. While it must be admitted that a flat

limitation of height would be the best plan from the æsthetic standpoint, pro-vided we had no high buildings, that condition does not exist; and accepting the case as we find it this plan seems much better. Under it some degree of order walls of the building to which it belongs all that any flat limitation of height and which enclose or partly enclose it. facades at the general level, and this is Then on an area sufficiently restricted, our high buildings from the æsthetic ity. The high parts of the buildings, as they would be exposed to view from all sides, would be treated architecturally on all sides. The most characteristic, in-teresting and beautiful of our high buildings are undoubtedly those which have been treated as towers, and this plan would certainly encourage that treatment. 9. The plan while placing a check on the erection of high buildings would deny to no landowner the right to build one.

10. It would not hinder the construcion of more of that kind of which all who have occupied the upper floors of high buildings know to be the most desirable, healthy and aggreable quarters which it is possible to get. On quarters which it is possible to get. On the contrary it would permit of the build-ing of just as much of it as can be lighted without doing injustice to adjoin-ing owners and to the public.

11. It would therefore permit of the utilization of the land to the greatest practicable extent. 12. The plan would be applicable to

advantageous for all classes of 13. Unlike the flat limitation of height

would tend to supply air, not shut it out; it would contain no inducement to limit story heights and the permissible area which could be occupied above the general limit would be fixed at a point where no improper shutting out of light could occur. In short this plan would secure to

would accomplish these things

RECALLS PART OF FIGHT IN WHICH CUSTER AND HIS COMMAND PERISHED

Big Horn in Montana in Gen. George A. Custer was killed mand of Two Moons.

rom personal experience. He is William E. Morris of the Munic-At the time of the battle a private in the Seventh Cavs company being in Major ed the lower end.

" Morris can only be persuaded me urging to talk about that f thirty-seven years ago. Here he said yesterday:

s living in Boston with my Hyron L. Tarbox, having dem to the recruiting office for airs for the purpose of being with a uniform. I remained

the measuring gauge and id enlist me, which he did. | pany

a. Montana, where I was placed

the thirty-seventh anniversary of the battle of the Little Big Horn—Was Wounded While Fighting

Wednesday, June 25, is built and reached the top of the Seventh Cavalry at the built where I joined the rest of the command. Battle of Little Big Horn-Was Wounded While Fighting

Indians led by Sitting Bull and had or was about to order the General orthern Cheyenne Indians under to Washington to answer certain official charges. It is therefore believed by against him at the War Department,

"Led by our two white scouts and by the Crow scouts, among them Curly. column. He was badly wounded Man-That-Goes-Ahead, Bull Plenty and because the Northern Cheyennes had him to a tree, where I propped him up Sloux in the fight. Major Reno's Hairy Moccasin, we travelled toward the whipped Gen. Crook on the Powder with his back against the trunk.

On was sent to strike the upper valley of the Little Big Horn. On the River a few days earlier. the Indians' camp while Custer | night of June 24 the scouts came in

thus restoring his prestige.

become a soldier I accom- Horn. The column was at once halted, tain advantage,

of seeing him enlist. He ficers and he decided that the force need, took the oath and was should be divided into three columns. he to take five companies and, skirt-ing behind the high ridge on the right few minutes word was brought to Reno Indian and for that reason attacked him increase this record to twenty-five. vance a couple of miles and strike the around to the rear and were shooting cut to pieces. you take on too? I told like to. He looked at me dasked, 'How old are you?' I', yet tail and big for my told him I was 21. He looked him I was 22. He looked him I was 23. He looked him I was 24. He looked him I was 25. He looked him I was 26. He looked him I was 26. He looked him I was 27. He looked him I was 28. He looked him I was 29. He looked him I was 21. He looked him I was 22. He looked him I was 23. He looked him I was 24. He looked him I was 25. He looked him I was 26. He looked him I was 26. He looked him I was 26. He looked him I was 27. He looked him I was 28. He looked him I was 29. He looked him I was 29. He looked him I was 29. He looked him I was 20. He by a detail of ten men from each com-

If remember only too well that as the did not know what he was hing water of the river. He tried to doing nor what orders he was giving; and given a kit.

Custer and his column moved away my brother Byron called out to me, 'Look out for your scalp, Bill. Those Indices of throwing away his sidearms; of giving the strong away We were assigned to the Seventh with some laughing remark. That and sent to Fort Abraham was the last time I ever saw my poor brother, dead or alive.

Reno moved down the valley as ordered. Our presence was first noted
by an Indian youth who was a mile
following spring. The hostile Inor more from the camp tending a herd

We were drilled all that winter and
by an Indian youth who was a mile
for more from the camp tending a herd

Our presence was first noted by an Indian youth who was a mile
for more from the camp tending a herd

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in Major Reno's Column

"Firing began, Soldiers dropped from

and flanking us on both sides. They Leave me alone, for God's sake!

with the news that they had seen signs of the hostiles on the Little Big Horn River. Gen. Custer at once gave the command to halt for the night.

"We saddled up at dawn and took up "I was riding near Major Reno. I and joined the rest of the force that was making for the bluffs.

"By this time I had fallen so far to the rear that I was among the last to that time we had been using our reach the river. I remember that Lieut. Carbines, but the flighting became so the reach the river. I remember that Lieut. Luther R. Hare, who was then a Lieuther R. Hare, who was the R. the march. We travelled along until hot we had no time to reload our car- tenant in the 7th Cavalry but who be the sun was quite high, when the scouts of other relatives in 1875, On came riding in at top speed with word in turned his horse and tried to lead ish-American War, rode past me like a or 22 of that year my half- that they had seen an immense camp of the way up the bluff, where higher dash on a big sorrel horse. Indians on the banks of the Little Big ground would have given us a cer-

and never and authentic and authentic and authentic and arms in his excitement or whatever "As I rede up the bluff I overtook two posted up in an East Side clubroom." "Reno moved down the valley as or- arms in his excitement or whatever

Gen. Custer was to locate the tepees and contents and taking only their squaws, pappooses and horses in the endeavor to escape. Meanwhile muss be explained here that some of the warriors, for the purpose

horses and mounted.

their saddles and some Indians fell, but it took only a few minutes for the bluff to the high ground. As we made is hving in New York to-day many that Gen. Custer resolved, if the Indians to discover how small a force for the hillside Capt. French's company aid and no doubt he thought that we m who can describe part of the opportunity offered, to make such a Reno had, and preparations to flee were servant, or striker as they are called in brilliant showing against the enemy as abandoned. The Indians turned against the army, a man named Laurents, fell would in part counteract the feeling us to the number of some 6,000. It from his horse shot through the stomseemed to me that day that as far as jach. I dismounted for the purpose of and other critics since to the contrary I could see there was nothing but In- helping him to mount behind me, but he dians on horseback riding toward us was in such agony that he shrieked. were particularly during, and confident refused to try to stand up and I dragged iver a few days earlier.

"I was riding near Major Reno. I and joined the rest of the force that was

"Lieut, Mackintosh, who was a full blooded Indian but from one of the civi-"Gen. Custer called a council of of- "Still our troopers continued to be lized tribes in the East, and who was an fore he entered in a recent egg eating bank of the river out of sight, ad- that the Indians had worked their way with especial fury. He was shot and When he reached seventeen eggs he was

fight. He has since been accused of I can still yet remember how the blood litical clubs astounding records are made cowardice; of having become so rat- from his wounds even stained the run- in the consumption of vlands. Some of "I remember only too well that as tied that he did not know what he was ning water of the river. He tried to those who take part think nothing of nount, mount, dismount.'

help himself and I was not strong basket included a leg and a breast of a chicken, twenty-five clams, two ears of and never heard him give such orders fell back on the river bank, so I had to corn and four potatoes. This record is

or more from the camp tending a herd of ponies. He raced back to camp on a large many difference of the first pony and gave the alarm. In less than a minute the entire camp was against them. Gen. Terry ordered in an uproar.

Custer to take the Seventh Cavery ordered in the direction of the large of the first pony and gave the alarm. In less than a minute the entire camp was against them. Gen. Terry ordered in an uproar.

Custer to take the Seventh Cavery ordered in the direction of the large pony and gave the alarm. In less than a minute the entire camp was against them. Gen. Terry ordered in an uproar.

Custer to take the Seventh Cavery ordered in the direction of the large pony and gave the alarm. In less than a minute the entire camp was toward them, which, naturally, brought their backs to the advancing Indians.

"Then it was that Captain T. A. or cruits in the army. As he spoke there was the pony and early a peck and a half of cherical to their faces in the saying to Gordon, 'It was pretty hot direction of the horses as they ran toward them, which, naturally, brought their backs to the advancing Indians.

"Then it was that Captain T. A. or cruits in the army. As he spoke there was the pony and gave the alarm. In less down there.' He answered, 'You'll get to this, you little shavetail. Shavetail is the term applied to recruits in the army. As he spoke there was the pony and early a peck and a half of cherical to their faces in the saying to Gordon, 'It was pretty hot down there.' He answered. 'You'll get to this, you little shavetail. Shavetail is the term applied to recruits in the army. As he spoke there was the pony at the assument of the bluff too. I remember a saying to Gordon, 'It was pretty hot down there.' He answered. 'You'll get to this, you little shavetail. Shavetail is the term applied to recruits in the army. As he spoke there was the total captain T. A. Cherical captain T. A. Shavetail is the term applied to recruits in the army of the pony of the bluff too. I remember a saying to Gor

Some time afterward Capt. Benteen with the pack train came up and reenhis command, consisting of 267 time before this Gen. Custer had inof the Seventh United States Cavwas annihilated by a force of
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was annihilated by a force of ment, In fact Secretary Belknap either was annihilated by a force of ment, In fact Secretary Belknap either was annihilated by a force of ment was annihilated by a comparatively near by, but as a matter of fact it was several miles distant We expected Custer would come to our ooth columns were there never was a time when that was possible, military notwithstanding.

"Gen Terry, with Gen Gibbon and a heavy force of cavalry, infantry and some artillery, arrived on the scene on June 27. The wounded were transported to the Missouri River, where we were placed on the steamer Far West and taken to Fort Lincoln, where we were placed in the hospital. I was laid up with my wound for two months. I remained in the army for some years afterward, serving through the Nez Perce campaign."

HERE'S THE BIG FEEDERS.

HAMPION Fried Egg Eater of the Berkshires was the title of Louis Morris of Housatonic, Mass., beseized with an attack of acute indiges-

